

## **MODIS TECHNICAL TEAM MEETING**

**12 Feb, 1998**

The MODIS Technical Team Meeting was chaired by Vince Salomonson. Present were Eric Vermote, Chris Justice, Bruce Guenther, Bob Murphy, Steve Wharton, Catherine Harnden, Ed Masuoka, Al Fleig, Bill Barnes, David Toll and Steve Platnick.

### **1.0 SCHEDULE OF EVENTS**

The next Science Team Meeting is June 24-26. Location: a place near GSFC TBD.

### **2.0 MINUTES OF THE MEETING**

#### **2.1 OVERALL**

Murphy reported that Wayne Esaias is recovering real well from his mild heart attack. Murphy said Wayne will be released on Friday, Feb. 13 and should be back to work in a week.

Salomonson said that Kaufman is looking for MODIS EOS-AM1 product accuracy estimates from the Science Team. Salomonson said there is an e-mail from Kaufman that should be circulated. Justice indicated that the MODIS Science Team priority is to deliver the product algorithm code and they are hard pressed for available time. Murphy will confer with Kaufman to go over the scope of the request.

Salomonson said there are plans underway on how to best handle data production and distribution issues for EOS PM and beyond. The distribution will likely continue through the DAACs; however, PIs may or may not get involved more with data production. Ramapriyan (ECS) will be invited to give an overview at the next Technical Team Meeting in two weeks. Salomonson indicated proposals may be due by May 1998.

Murphy said he represented MODIS with Kaufman and Kannenberg at the EOS AM-1 and Landsat Workshop with the Public Affairs Office. Murphy noted David Herring presented the AM projects role on public affairs.

Guenther asked Murphy to examine possible issues related to having Landsat-7 and EOS AM in the same orbit.

#### **2.2 INSTRUMENTATION**

Barnes reported the spacecraft is continuing thermal vacuum testing at Valley Forge. Guenther said there is a "minor" concern from the MCST analysis on the colder than expected temperature of MODIS. However, the thermal vacuum testing is likely colder than the operating conditions in orbit. Barnes said they know the problem affecting the FM1 analog module fuse (i.e., 1-amp fuse has blown twice). The problem is being fixed on FM1. Repairs for the PFM are under discussion.

Guenther said some of the additional FM1 tests requested by Otis Brown will be incorporated with the baseline tests. Guenther noted these tests from Brown may not be costly. Guenther said the EOS Project Office seems receptive to MCST's request for the additional testing.

Justice said the “Second Sample “ problem discussed in the 29 January, 1998 Technical Team Minutes may not meet MODLAND requirements. Guenther will prepare a short summary of MCST’s plans for MODLAND.

### **2.3 SDST**

Masuoka reported a Draft EDC Operations Agreement with SDST is due by Feb. 20, 1998. He provided a single page table that summarizes the status of the MODIS product Version 2 Schedule (Attachment 1). Masuoka noted the toolkit for PGE01 to Level 1a data is not working properly and noted ECS needs to quickly fix the toolkit to not hold up the process any further. Justice said MODLAND is assisting University of Arizona to get their software delivery back on schedule. Masuoka and Platnick indicated the late delivery of the cloud products is being worked on and should be submitted shortly. Masuoka said SDST is checking out the SSTG with appended patches before delivering to DAAC. Masuoka said Wolfe (SDST) is compiling MODLAND 2.1 post launch products that will be added to the table (Attachment 1). Guenther noted that there will be no MCST 2.1 deliveries in time for the launch certification testing. Version 2.1 deliveries are expected for L1B for at-launch processing..

Fleig summarized efforts by SDST to reduce geolocation software processing (Attachment 2). Currently, the Version 2 geolocation process that is part of PGE01 is taking too long (i.e., 35-48 minutes for one granule of 203 scans). Fleig noted about 79% of the time is spent in geolocation and 21% is spent in the land sea mask routines. Fleig said there are three fixes SDST can implement for inclusion in the at-launch code and two more by the end of the year that will not be included in the at-launch software. In addition, SDST will follow-up with more improvements using post launch data. Fleig noted that part of the geolocation time savings may need to be reinserted for future DEM data inputs.

### **2.4 GDAAC**

Wharton summarized recent Goddard DAAC developments given in Attachment 3. Wharton noted their Phase II Integration is on hold until the SDP Toolkit problem is resolved by ECS as an emergency 24 hour fix. Harnden and Wharton indicated the identified problems reported to SDST will also be identified for the PI. Other problems are outlined in Attachment 3.

### **2.5 DISCIPLINE REPORTS**

Justice requested the GDAAC provide MODLAND a point of contact. Platnick said there was a MODIS Atmosphere retreat last week that provided an excellent update on science work. The meeting covered an update on algorithms, identified common data sets, and Level 3 product information.

### **2.6 MAST REPORTS**

Toll announced that the new proposed date for the next Science Team Meeting is June 24-26. MAST is looking for a place near GSFC to hold the meeting.

### **3.0 ACTION ITEMS**

#### **3.1 Action Items Carried Forward: Status Review**

1. Masuoka: Speak to SSTG about possibly revising the scheduled delivery dates for the four MODLAND PGEs that SDST does not currently have the manpower to begin work.

Status: Work is in progress.

2. SDST, GDAAC and MODLAND: Representatives should meet to discuss the Land Tiling issue and ensure that MODIS presents a unified position to ECS.

Status: This action item is closed.

3. Guenther and Masuoka: Assess whether Version 2.1 can be delivered by April 1.

Status: Work is in progress.

4. Fleig: Send Murphy the URL for the Web site containing the full list of ESIPs.

Status: This action item is closed.

5. Masuoka and Harnden: Develop a plan for ingesting/archiving MEBS/SCF- produced standard products, especially Level 3's.

Status: This action item is in progress.

6. Masuoka: Compile a list of PGEs prioritized according to "launch plus x" for production, and provide the list to the GDAAC, Murphy and the discipline group leaders.

Status: This action item is in progress.

7. Masuoka: Contact EDC and request dates for EDC SSI&T for inclusion into the Version 2 schedule.

Status: This action item is in progress.

#### **3.2 New Action Items**

1. 1. Murphy: Meet with Kaufman to discuss MODIS EOS AM product accuracy estimate scope and deadlines for the MODIS Science Team.

2. Murphy: Invite Ramapryan to the next Technical Team Meeting to discuss PM and beyond data distribution and production issues. Also send out e-mail on subject matter.

3. Murphy: Examine Landsat-7 and EOS-AM orbit issues.

4. Guenther: Prepare a short summary of the "second sample" problem to MODLAND.

5. Fleig: Contact ECS, ESDIS, and SWAMP about possible changes in the DEM that would improve geolocation processing efficiency.. Note, the changes may down the line effect DEM related inputs.

6. Wharton: Provide a GDAAC point of contact with MODLAND.